

Please replace the paragraph beginning on page 4, line 17, with the following rewritten paragraph:

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A2 --Signal construction, detection and estimation techniques suitable for use in conjunction with the present invention are described in the above-cited U.S. Patent Application Serial No. 09/503,041.--

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IN THE CLAIMS

26. (Amended) An apparatus for uplink communication between a mobile station and a base station of a wireless communication system, the apparatus comprising:

means for generating at least one of an uplink access signal and an uplink timing synchronization signal; and

A3 means for transmitting the generated at least one signal from the mobile station to the base station in a particular one of a set of recurring intervals in which regular uplink data transmission from at least one additional mobile station to the base station is at least partially suspended.

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29. (Amended) An apparatus for uplink communication between a mobile station and a base station of a wireless communication system, the apparatus comprising:

A4 means for receiving in the base station at least one of an uplink access signal and an uplink timing synchronization signal transmitted from the mobile station in a particular one of a set of recurring intervals in which regular uplink data transmission from at least one additional mobile station to the base station is at least partially suspended; and

means for processing the received at least one signal.

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